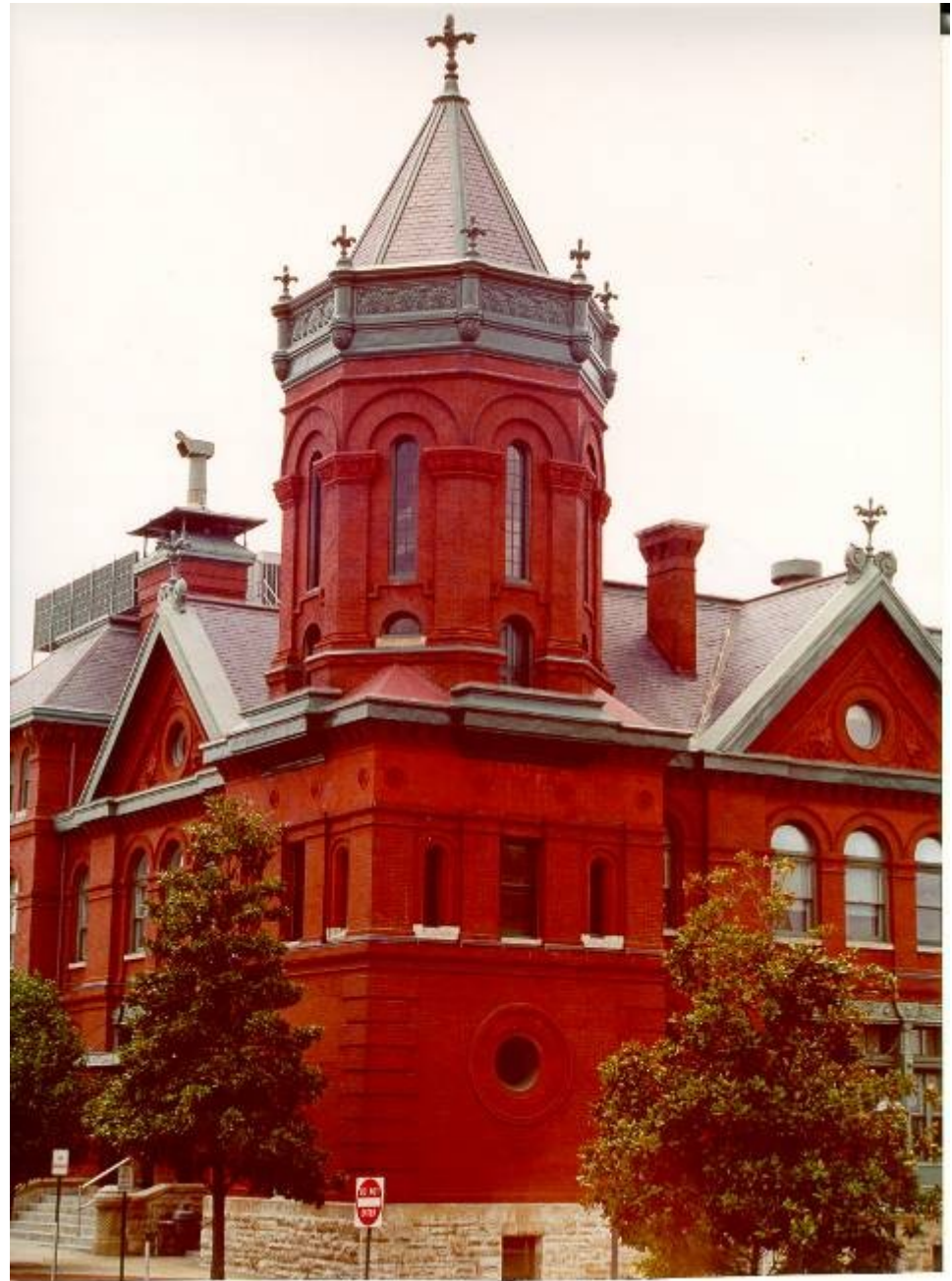
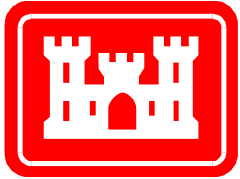


US Army Corps Of Engineers



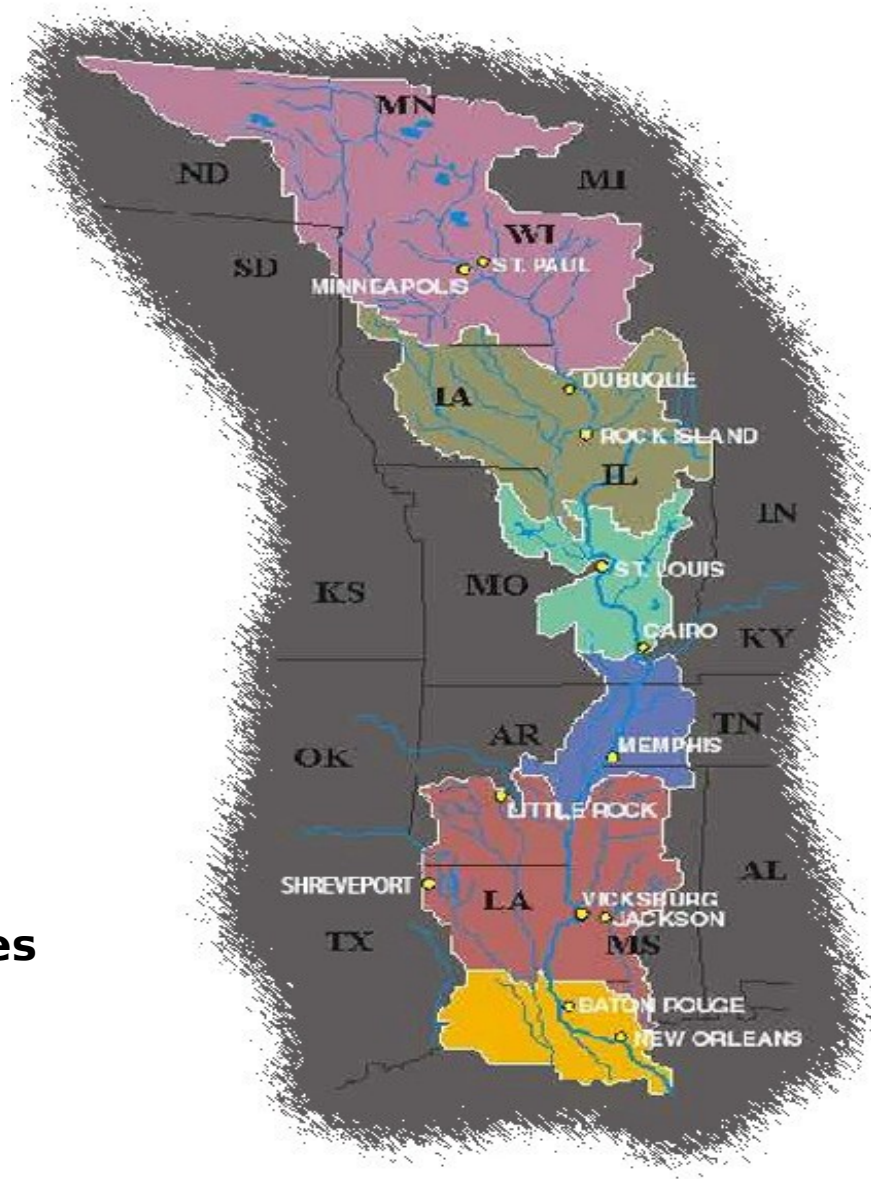
One Team: Relevant, Ready, Responsive, Reliable

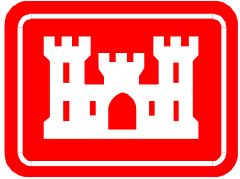


US Army Corps Of Engineers

Navigation

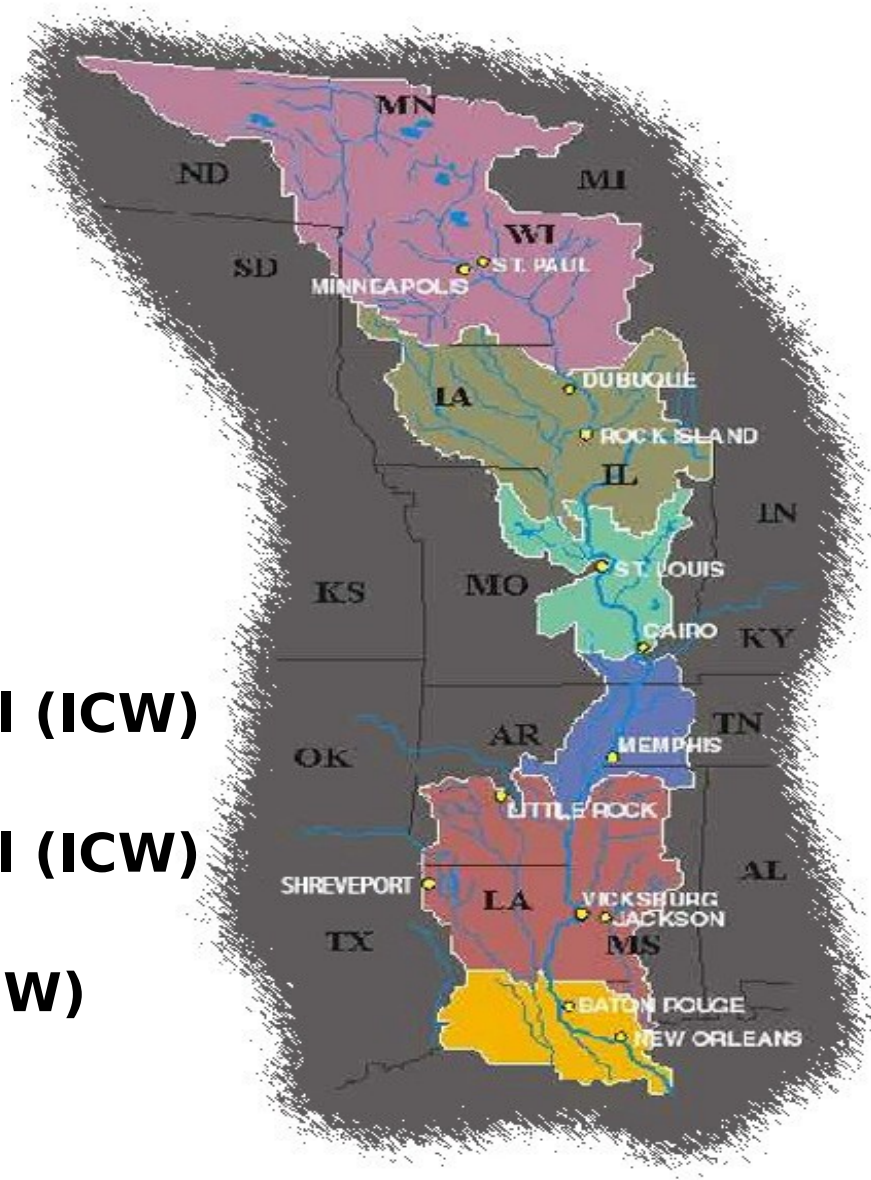
- 62 Lock & Dam Sites
 - 67 Lock Chambers
- 4,267 Miles of Channel
- 4,405 Wing Dams (692 Miles)
- 452 Lateral Pile Dikes (34.1 Miles)
- 6 Lateral Soft Dikes (1.4 Miles)
- 36.5 Miles Foreshore Protection Dikes
- 1,092.1 Miles Revetment
- 660 Rock Dikes (262.3 Miles)
- 7 Deep Draft Harbors
- 51 Shallow Draft Harbors
- 24.6 Miles of Breakwaters

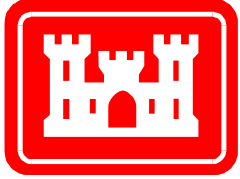




US Army Corps Of Engineers

- **37 Reservoirs / Dams**
- **3,508 Miles of Channels**
 - **2,088 Corps & 1,420 Local (ICW)**
- **8,375 Miles of Levee**
 - **1,708 Corps & 6,667 Local (ICW)**
- **395 Drainage Structures**
 - **213 Corps & 182 Local (ICW)**
- **34 Pumping Plants**
 - **28 Corps & 6 Local (ICW)**
- **688 Erosion Control Structures**



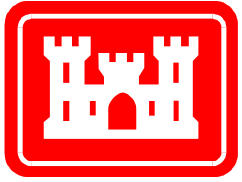


MITER GATES

US Army Corps Of Engineers



- ◆ 37 Locks – most 70 years old
- ◆ All Original Miter Gates except 9 sets
- ◆ Ice, Corrosion, Fatigue, Barge Impacts
- ◆ No Longer economical to repair
- ◆ Spare Gates
 - ◆ All in use
 - ◆ Less Robust

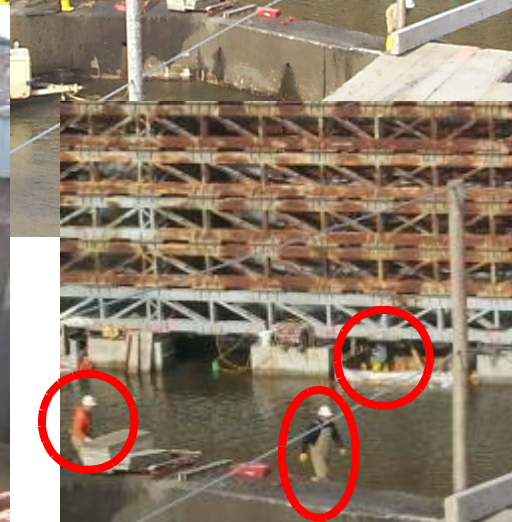


**US Army Corps
Of Engineers**

Bulkheads (Stoplogs)

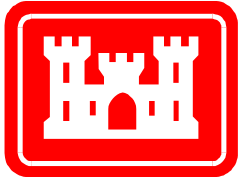


Poiree Dam



- Life Safety Issue

One Team: Relevant, Ready, Responsive, Reliable

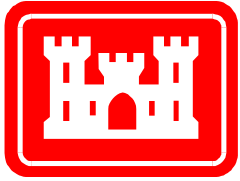


Bulkheads & Slots

US Army Corps Of Engineers

- Bulkheads
 - St. Paul (1 set)
 - Rock Island (2 sets)
Miss & IWW
 - St. Louis (1 set)
Existing
- Bulkhead Slots
 - St. Paul (10 sites)
 - Rock Island (14 sites)
 - St. Louis (1 site)
 - O/B Waterway

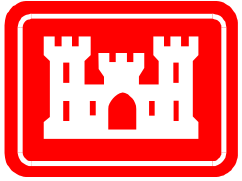




US Army Corps Of Engineers



One Team: Relevant, Ready, Responsive, Reliable



MVD Navigation Decreasing Risk-Improving Reliability

**US Army Corps
Of Engineers**



One Team: Relevant, Ready, Responsive, Reliable